

METHOD AND APPARATUS FOR MANAGING THE CONFIGURATION AND FUNCTIONALITY OF A SEMICONDUCTOR DESIGN

Abstract of the Disclosure

5

10

15

A method of managing the configuration, design parameters, and functionality of an integrated circuit (IC) design using a hardware description language (HDL). Instructions can be added, subtracted, or generated by the designer interactively during the design process, and customized HDL descriptions of the IC design are generated through the use of scripts based on the user-edited instruction set and inputs. The customized HDL description can then be used as the basis for generating "makefiles" for purposes of simulation and/or logic level synthesis. The method further affords the ability to generate an HDL model of a complete device, such as a microprocessor or DSP. A computer program implementing the aforementioned method and a hardware system for running the computer program are also disclosed.